

Response 7

The mill did not typically monitor finished (exiting the D2 stage) bleached pulp kappa. The process of the last bleach stages was to bleach to a specified pulp brightness. The target brightness would be typical of a pulp with a nominal zero kappa.

New-Indy Catawba LLC
KAPPA NUMBER TRACKING PER COND. FW.7 OF 2440-0005 (Rev. 2-6-13)

Month	Avg. Monthly Kappa Number	12-Mo. Rolling Avg. Kappa Number
May-17	12.249	11.562
Jun-17	11.823	11.504
Jul-17	12.523	11.515
Aug-17	11.852	11.533
Sep-17	11.225	11.507
Oct-17	12.294	11.588
Nov-17	12.460	11.761
Dec-17	12.614	11.818
Jan-18	13.074	11.890
Feb-18	10.503	11.758
Mar-18	11.162	11.809
Apr-18	10.929	11.892
May-18	12.458	11.910
Jun-18	10.223	11.776
Jul-18	10.997	11.649
Aug-18	10.443	11.532
Sep-18	11.365	11.543
Oct-18	11.089	11.443
Nov-18	10.675	11.294
Dec-18	10.569	11.124
Jan-19	10.471	10.907
Feb-19	10.688	10.922
Mar-19	10.663	10.881
Apr-19	11.513	10.930
May-19	12.000	10.891
Jun-19	11.950	11.035
Jul-19	11.778	11.100

RESOLUTE FOREST PRODUCTS - CATAWBA OPERATIONS
KAPPA NUMBER TRACKING PER COND. FW.7 OF 2440-0005 (Rev. 2-6-13)

Month	Avg. Monthly Kappa Number	12-Mo. Rolling Avg, Kappa Number
Jul-12	11.486	11.486
Aug-12	11.913	11.700
Sep-12	11.732	11.711
Oct-12	11.314	11.611
Nov-12	12.321	11.753
Dec-12	11.828	11.766
Jan-13	12.739	11.905
Feb-13	13.161	12.062
Mar-13	11.629	12.014
Apr-13	11.848	11.997
May-13	11.779	11.977
Jun-13	11.873	11.969
Jul-13	11.822	11.997
Aug-13	12.053	12.008
Sep-13	11.802	12.014
Oct-13	10.914	11.981
Nov-13	12.345	11.983
Dec-13	12.198	12.014
Jan-14	12.879	12.025
Feb-14	12.535	11.973
Mar-14	11.557	11.967
Apr-14	11.608	11.947
May-14	12.899	12.040
Jun-14	11.430	12.003
Jul-14	11.433	11.971
Aug-14	11.163	11.897
Sep-14	11.384	11.862
Oct-14	12.157	11.966
Nov-14	11.433	11.890
Dec-14	12.136	11.884
Jan-15	12.274	11.834
Feb-15	10.872	11.695
Mar-15	10.604	11.616
Apr-15	11.219	11.583
May-15	11.127	11.436
Jun-15	12.056	11.488
Jul-15	11.177	11.467
Aug-15	11.112	11.463
Sep-15	10.742	11.409
Oct-15	11.703	11.371
Nov-15	11.453	11.373
Dec-15	10.987	11.277
Jan-16	11.616	11.222
Feb-16	10.663	11.205
Mar-16	9.851	11.142
Apr-16	10.490	11.082
May-16	10.606	11.038
Jun-16	12.525	11.077
Jul-16	12.393	11.178
Aug-16	11.628	11.221
Sep-16	11.547	11.289
Oct-16	11.320	11.257
Nov-16	10.374	11.167
Dec-16	11.940	11.246
Jan-17	12.208	11.295
Feb-17	12.084	11.414
Mar-17	10.548	11.472
Apr-17	9.931	11.425